B.E CIVIL

Mapping of Course Outcome and Programme Outcome

		Course Name	PO1	PO2	PO3
YEAR I	SEMESTER I	Technical English			
		Engineering Mathematics I			
		Engineering Physics			
		Engineering Chemistry			
		Problem Solving and Python	✓	✓	✓
		Programming			
		Basic Sciences Laboratory			
		Problem Solving and Python	~	~	~
		Programming Laboratory			
		Engineering Mathematics II			✓
		Engineering Graphics	V	/	<u> </u>
	=	Basics of Electrical and Electronics Engineering	,		
	SEMESTER	Engineering Mechanics	_		_
		Environmental Sciences			
		Audit Course I		9	
		Workshop Practices Laboratory	✓	✓	✓
		Electrical and Electronics Engineering Laboratory	√	~	~
		Course Name	PO1	PO2	PO3
	SEMESTER III	Transform Techniques and Partial Differential Equations			
YEAR II		Engineering Geology	2	2	3
		Strength of Materials	3	3	3
		Fluid Mechanics	3	2	3
		Construction Materials, Techniques and Practices	3	2	3
		Elective – Humanities I			
		Strength of Materials Laboratory	3	2	
		Construction Materials Laboratory	3	3	

	Water Supply Engineering	3	2	3
	Highway Engineering	3	3	3
SEMESTER IV	Plane and Geodetic Surveying	3	2	2
	Applied Hydraulic Engineering	3	3	2
	Structural Analysis - I	3	3	2
	Soil Mechanics	3	3	2 2
	Plane and Geodetic Surveying Laboratory	1	1	2
	Hydraulic Engineering Laboratory	3	3	2
	Course Name	PO1	PO2	РО
SEMESTER V	Elective – Humanities I			
	Foundation Engineering	2	3	3
	Structural Analysis - II	3	3	3
	Waste Water Engineering	3	2	3
	Design of Reinforced Cement Concrete Structures	3	3	3
	Professional Elective - I			
	Water and Waste Water Analysis Laboratory	2	2	2
	Soil Mechanics Laboratory	1	2	3
SEMESTER VI	Design of Steel Structures	2	2	3
		3	3	3
	Building and Structural Drawing	3		
	Highway Engineering Laboratory		3	3
	Survey Camp (2 weeks)		1	2
	SEMESTER V	Highway Engineering Plane and Geodetic Surveying Applied Hydraulic Engineering Structural Analysis - I Soil Mechanics Plane and Geodetic Surveying Laboratory Hydraulic Engineering Laboratory Course Name Elective – Humanities I Foundation Engineering Structural Analysis - II Waste Water Engineering Design of Reinforced Cement Concrete Structures Professional Elective - I Water and Waste Water Analysis Laboratory Soil Mechanics Laboratory Design of Steel Structures Audit Course II Railways, Airports and Harbour Engineering Professional Elective III Open Elective – I Building and Structural Drawing Highway Engineering Laboratory	Highway Engineering Plane and Geodetic Surveying Applied Hydraulic Engineering Structural Analysis - I Soil Mechanics Plane and Geodetic Surveying Laboratory Hydraulic Engineering Laboratory Tourse Name Pot Elective – Humanities I Foundation Engineering Structural Analysis - II Waste Water Engineering Design of Reinforced Cement Concrete Structures Professional Elective - I Water and Waste Water Analysis Laboratory Soil Mechanics Laboratory 1 Design of Steel Structures Audit Course II Railways, Airports and Harbour Engineering Professional Elective II Professional Elective III Open Elective – I Building and Structural Drawing Highway Engineering Laboratory 3 Highway Engineering Laboratory 3 Highway Engineering Laboratory	Highway Engineering 3 3 3 Plane and Geodetic Surveying 3 2 Applied Hydraulic Engineering 3 3 3 Structural Analysis - I 3 3 3 Plane and Geodetic Surveying Laboratory 1 1 Hydraulic Engineering Laboratory 1 1 Hydraulic Engineering Laboratory 3 3 Course Name PO1 PO2 Elective – Humanities I Foundation Engineering 2 3 Structural Analysis - II 3 3 3 Waste Water Engineering 3 2 Structures Professional Elective - I Water and Waste Water Analysis 2 2 Laboratory 5 2 2 Audit Course II Railways, Airports and Harbour Engineering Professional Elective II Professional Elective II Professional Elective III Open Elective — I Building and Structural Drawing 3 4 Highway Engineering Laboratory 3 3 Highway Engineering Laboratory 3 3

	Course Name	PO1	PO2	РО
	Principles of Management			
	Irrigation Engineering	3	2	
=	Professional Elective IV			
~	Professional Elective V			
SEMESTER	Open Elective – II			
	Summer Internship / Summer training (4 weeks)	2	3	3
	Irrigation and Environmental Engineering Drawing			
	Project I	3	2	1
ER VIII	Estimation, Costing and Valuation Engineering	3	2	3
	Professional Elective VI			
	Professional Elective VII			
SEMEST	Project II	3	2	2
	SEMESTER VIII SEMESTER VII	Principles of Management Irrigation Engineering Professional Elective IV Professional Elective V Open Elective – II Summer Internship / Summer training (4 weeks) Irrigation and Environmental Engineering Drawing Project I Estimation, Costing and Valuation	Principles of Management Irrigation Engineering 3 Professional Elective IV Professional Elective V Open Elective – II Summer Internship / Summer training (4 weeks) Irrigation and Environmental Engineering Drawing Project I 3 Estimation, Costing and Valuation 3	Principles of Management Irrigation Engineering 3 2 Professional Elective IV Professional Elective V Open Elective – II Summer Internship / Summer training (4 weeks) Irrigation and Environmental Engineering Drawing Project I 3 2 Estimation, Costing and Valuation 3 2